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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/759,117	01/20/2004	Hirohisa Fujita	14-024	6658
23400	7590	09/19/2005		
POSZ LAW GROUP, PLC 12040 SOUTH LAKES DRIVE SUITE 101 RESTON, VA 20191			EXAMINER TRAN, DALENA	
			ART UNIT 3661	PAPER NUMBER

DATE MAILED: 09/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/759,117	Applicant(s) FUJITA ET AL.	
	Examiner Dalena Tran	Art Unit 3661	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 30 June 2005.
- 2a) ☐ This action is FINAL.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 2-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 4-7 is/are allowed.
- 6) ☒ Claim(s) 2 and 3 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### Notice to Applicant(s)

1. This office action is responsive to the amendment filed on 6/30/05. As per request, claim 1 has been cancelled, claims 2-4, and 6 have been amended. Thus, claims 2-7 are pending.

### *Claim Rejections - 35 USC § 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 2, is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuda et al. (4,939,725) in view of Yoshida et al. (6,534,883), and Hogg et al. (5,408,412).

As per claim 2, Matsuda et al. disclose a failure diagnosis method of communication network for a vehicle that is constructed by an electronic control device and a plurality of electronic control instruments provided with a failure diagnosis portion being connected to a main line of a multiplex communication line comprising the steps of: storing different diagnosis trouble codes respectively, at a failure diagnosis portion of the electronic control device, when the electronic control instrument is malfunctioning, or when an abnormality including disconnection or short circuit has occurred in a communication line from the main line of the multiplex communication line to a branch line that is connected to the electronic control instrument (see at least columns 1-2, lines 40-19; column 3, lines 18-64; columns 4-5, lines 35-27; and columns 6-7, lines 31-45). Matsuda et al. do not disclose measuring a resistance value. However, Yoshida et al.

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disclose measuring a resistance value of the main line resistance in the multiplex communication line, and identifying an abnormality portion in the communication network by a combination of the measured resistance value of the main line and the diagnosis trouble code that is stored in the failure diagnosis portion (see at least columns 7-8, lines 27-56). Matsuda et al. also do not disclose the measuring the diagnosis trouble code is performed after the measuring main line resistance. However, Hogg et al. disclose the measuring the diagnosis trouble code is performed after the measuring main line resistance of the multiplex communication line, and the abnormality portion is identified by combining the diagnosis trouble code and the measured resistance value (see columns 11-12, lines 36-68). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Matsuda et al. by combining measuring a resistance value of the main line resistance in the multiplex communication line, and the measuring the diagnosis trouble code is performed after the measuring main line resistance for providing an accurate data to perform failure diagnosis in vehicle communication network.

5. Claim 3, is rejected under 35 U.S.C.103(a) as being unpatentable over Matsuda et al. (4,939,725) in view of Yoshida et al. (6,534,883).

As per claim 2, Matsuda et al. disclose a failure diagnosis method of communication network for a vehicle that is constructed by an electronic control device and a plurality of electronic control instruments provided with a failure diagnosis portion being connected to a main line of a multiplex communication line comprising the steps of: storing different diagnosis trouble codes respectively, at a failure diagnosis portion of the electronic control device, when the electronic control instrument is malfunctioning, or

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when an abnormality including disconnection or short circuit has occurred in a communication line from the main line of the multiplex communication line to a branch line that is connected to the electronic control instrument (see at least columns 1-2, lines 40-19; column 3, lines 18-64; columns 4-5, lines 35-27; and columns 6-7, lines 31-45). Matsuda et al. do not disclose measuring a resistance value. However, Yoshida et al. disclose measuring a resistance value of the main line resistance in the multiplex communication line, and identifying an abnormality portion in the communication network by a combination of the measured resistance value of the main line and the diagnosis trouble code that is stored in the failure diagnosis portion (see at least columns 7-8, lines 27-56). Matsuda et al. also do not disclose the measuring the main line resistance is performed after the diagnosis trouble code. However, Yoshida et al. disclose the measuring the main line resistance of the multiplex communication line is performed after the measuring the diagnosis trouble code that is stored in the failure diagnosis portion is detected, and the abnormality portion is identified by combining the diagnosis trouble code and the measured resistance value (see columns 8-10, lines 57-23; columns 11-12, lines 53-10; and columns 16-18, lines 24-21). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Matsuda et al. by combining measuring a resistance value of the main line resistance in the multiplex communication line, the measuring the main line resistance of the multiplex communication line is performed after the measuring the diagnosis trouble code that is stored in the failure diagnosis portion is detected for identifying the main line resistance value corresponding to abnormality signal position.

6. Claims 4-7 are allowable.

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**Remarks**

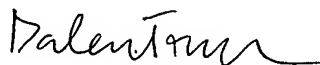
7. Applicant's amendment filed on 6/30/05 has been fully considered. Upon reviewing the claims and updated search, the allowance of claims 2-3 in the last office action is withdrawn, and the new ground of rejection has been set forth as above.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalena Tran whose telephone number is 571-272-6968. The examiner can normally be reached on M-F 6:30 AM-4:00 PM), off every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on 571-272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner  
Dalena Tran



September 14, 2005